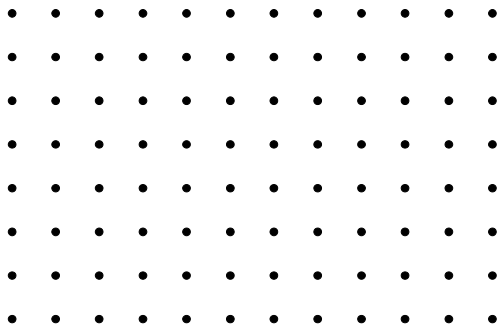


UNIT 1 TEST REVIEW

1. Howard has 15 tulip bulbs. He wants to plant them in a rectangular array consisting of *at least* 3 rows with *at least* 3 tulips in each row. On the grid below, draw the possible arrays.



2. Is 48 an even or an odd number?
3. List all the factors of 36.
4. Is 9 a prime or a composite number? How can you tell?
5. Circle the factors of 12 that are prime numbers.
1, 2, 3, 4, 6, 12
6. Write the prime factorization of 27.
7. Write the prime factorization of 3,240 using exponents.
8. Fill in the missing numbers.
- a. $5^2 = \underline{\hspace{2cm}}$
 - b. $4^2 = \underline{\hspace{2cm}}$
 - c. $\underline{\hspace{2cm}} = 8^2$
 - d. $\underline{\hspace{2cm}}^2 = 16$
 - e. $\underline{\hspace{2cm}}^2 = 64$
 - f. $6 \times 6 = \underline{\hspace{2cm}}^2$

UNIT 1 TEST REVIEW

9. Pretend that you are playing *Factor Captor* on the number grid below. The crossed-out numbers have already been picked. Which number would you choose next? Why?

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23	24	25
26	27	28	29	30

10. Write a number between 100 and 150 that is divisible by 3 but not by 2.
11. Write a number between 200 and 300 that is divisible by 2, 3, and 5.
12. Use the following clues to figure out on what date Bruni had her birthday.
- The date is an odd number.
 - The date is not a square number.
 - The date is not a prime number.
 - The date is a multiple of 7.

DECEMBER

Sun	Mon	Tue	Wed	Thur	Fri	Sat
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

13. Is 42 a prime or a composite number? Explain your answer.